# nature portfolio

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## **Reporting Summary**

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our Editorial Policies and the Editorial Policy Checklist.

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Sta	Statistics							
Fora	For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.							
n/a	a Confirmed							
	🗴 The exact	$\blacksquare$ The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement						
X	A stateme	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly						
	The statistical test(s) used AND whether they are one- or two-sided  Only common tests should be described solely by name; describe more complex techniques in the Methods section.							
×	A description of all covariates tested							
×	A descript	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons						
	A full desc AND varia	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)						
		For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i> ) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted <i>Give P values as exact values whenever suitable.</i>						
×	For Bayes	ian analysis, information on the choice of priors and Markov chain Monte Carlo settings						
X	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes							
×	Estimates of effect sizes (e.g. Cohen's <i>d</i> , Pearson's <i>r</i> ), indicating how they were calculated							
Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.								
Software and code								
Poli	cy information :	about <u>availability of computer code</u>						
Da	Data collection Matlab version 9.5							
Da	ita analysis	Matlab version 9.5, R version 4.0.1, MedCalc version 15.8 and Microsoft Excel 2019						

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.

#### Data

Policy information about availability of data

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our policy

The data that support the findings of this study are provided by the Vol-PACT (Advanced Metrics and Modeling with Volumetric Computed Tomography for Precision Analysis of Clinical Trial Results), which is a program under the Foundation for the National Institutes of Health (FNIH) Biomarkers Consortium (https:// fnih.org/our-programs/biomarkers-consortium/programs/vol-pact). Since the fNIH Biomarkers Consortium is a public-private partnership, the data is available with permission from the Foundations, Biomarker Consortium. That is, to access the data, companies and not-for-profit organizations should firstly become a member of Biomarkers Consortium and then participate the Vol-PACT. The information on joining Biomarker Consortium can be found at, https://fnih.org/our-programs/ biomarkers-consortium/join. And the application for participating the Vol-PACT can contact the program manager of Vol-PACT at the Biomarker Consortium, Dana E. Connors (Senior Scientific Program Manager, Cancer Research Partnerships) at dconnors@fnih.org.

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<b>x</b> Life sciences	Behavioural & social sciences Ecological, evolutionary & environmental sciences
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Lite scie	nces study design
All studies must d	isclose on these points even when the disclosure is negative.
Sample size	Since our study is a re-analysis of a completed trail, details of the trial, including ethical regulation, trail approval, patient eligibility, trial design, patient randomization, and dose administration, can be found in the previous report, 'Van Cutsem, E., et al., Addition of aflibercept to fluorouracil, leucovorin, and irinotecan improves survival in a phase III randomized trial in patients with metastatic colorectal cancer previously treated with an oxaliplatin-based regimen. J Clin Oncol, 2012. 30(28): p. 3499-506'.
Data exclusions	Since our study is a re-analysis of a completed trail, details of the trial, including ethical regulation, trail approval, patient eligibility, trial design, patient randomization, and dose administration, can be found in the previous report, 'Van Cutsem, E., et al., Addition of aflibercept to fluorouracil, leucovorin, and irinotecan improves survival in a phase III randomized trial in patients with metastatic colorectal cancer previously treated with an oxaliplatin-based regimen. J Clin Oncol, 2012. 30(28): p. 3499-506'.
Replication	Since our study is a re-analysis of a completed trail, details of the trial, including ethical regulation, trail approval, patient eligibility, trial design, patient randomization, and dose administration, can be found in the previous report, 'Van Cutsem, E., et al., Addition of aflibercept to fluorouracil, leucovorin, and irinotecan improves survival in a phase III randomized trial in patients with metastatic colorectal cancer previously treated with an oxaliplatin-based regimen. J Clin Oncol, 2012. 30(28): p. 3499-506'.
Randomization	Since our study is a re-analysis of a completed trail, details of the trial, including ethical regulation, trail approval, patient eligibility, trial design, patient randomization, and dose administration, can be found in the previous report, 'Van Cutsem, E., et al., Addition of aflibercept to fluorouracil, leucovorin, and irinotecan improves survival in a phase III randomized trial in patients with metastatic colorectal cancer previously treated with an oxaliplatin-based regimen. J Clin Oncol, 2012. 30(28): p. 3499-506'.
Blinding	Since our study is a re-analysis of a completed trail, details of the trial, including ethical regulation, trail approval, patient eligibility, trial design, patient randomization, and dose administration, can be found in the previous report, 'Van Cutsem, E., et al., Addition of aflibercept to fluorouracil, leucovorin, and irinotecan improves survival in a phase III randomized trial in patients with metastatic colorectal cancer previously treated with an oxaliplatin-based regimen. J Clin Oncol, 2012. 30(28): p. 3499-506'.

## Reporting for specific materials, systems and methods

We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.

Ma	terials & experimental systems	Methods		
n/a	Involved in the study	n/a Involved in the study		
×	Antibodies	X ChIP-seq		
×	Eukaryotic cell lines	Flow cytometry		
×	Palaeontology and archaeology	MRI-based neuroimaging		
×	Animals and other organisms	·		
×	Human research participants			
	X Clinical data			
×	Dual use research of concern			

### Clinical data

Policy information about <u>clinical studies</u>

All manuscripts should comply with the ICMJEguidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.

Clinical trial registration

NCT00561470

Study protocol

https://clinicaltrials.gov/ct2/show/NCT00561470

Data collection

Since our study is a re-analysis of a completed trail, details of the trial, including ethical regulation, trail approval, patient eligibility, trial design, patient randomization, and dose administration, can be found in the previous report, 'Van Cutsem, E., et al., Addition of aflibercept to fluorouracil, leucovorin, and irinotecan improves survival in a phase III randomized trial in patients with metastatic colorectal cancer previously treated with an oxaliplatin-based regimen. J Clin Oncol, 2012. 30(28): p. 3499-506'.

Outcomes

Since our study is a re-analysis of a completed trail, details of the trial, including ethical regulation, trail approval, patient eligibility, trial design, patient randomization, and dose administration, can be found in the previous report, 'Van Cutsem, E., et al., Addition of aflibercept to fluorouracil, leucovorin, and irinotecan improves survival in a phase III randomized trial in patients with metastatic colorectal cancer previously treated with an oxaliplatin-based regimen. J Clin Oncol, 2012. 30(28): p. 3499-506'.